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SCIENTIFIC INTELLIGENCE COMMITTEE

DHOE R.Am

14 February 1967

MEMORANDUM FOR: Director, National Estimates

SUBJECT:

Table II-B-4, NIPP 67 (Soviet Interceptor

and Fighter Aircraft Estimated Characteristic and Performance)

1. Per your request, the SIC has reviewed the subject table and has approved it with several modifications. For this exercise, a special meeting between SICELSUBCOM, the SIC Aircraft Working Group, and the AA Working Group of GMAIC was convened and appropriate performances were agreed upon.

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2. There are no reservations to this table.

25X1A

Executive Secretary

Distribution:

10 - ONE

1 - each SIC Member

1 - GMAIC

1 - SICELSUBCOM

1 - AWG

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TABLE IIB 4

SOVIET INTERCEPTOR AND FIGHTER AIRCRAFT ESTIMATED CHARACTERISTICS AND PERFORMANCE

i i			1	1 /*			19	
		Maximum Sea	Specits (k 35.000	(nots)=' 50,000	Combat Ceiling	<u>Силь</u> 4599 W/O 328.	Aller (n. 1915) Aller (n. 1916)	
- Model	IQC	Lovel	30,000 Fret	Feet	(Feat) 1/2/	1.1	27 111	
. <u>014 Nodvls</u>					_		1	
Fresco A and B (MIG-17)	1953	6 05	550	530	53,400	300	51,5	
Fresco C (MIG-17)	1954	620	560	550	54,500	270	516	
Fresco D (MIG-17)	1955	€20	560	550	5h,500	270	510	
Fresco E (MIG-17)	1954	605	550	530	53,460	300	5/10	
- Flashlight (YAK-25)	1955	દા૦	540		49,400	500	575	
Farmer A (MIG-19)	1955	650	755	640	54,500	300	500 /	
Farmer B (MIC-19)	1957	650	755	640	54,500	. 300	500	
Farmer C (MIG-19)	1957	650	755	<i>C</i> 40	54,500	360	500	
Farmor D (MIG-19)	1957	650	755	640	51,500	307	53.5	
Farmer E (MIG-19)	1959	650	745	635	54,900 °	250	520	
Current Models			·					
Fitter (SU-7) ^{II}	1959	660	1,205	- 1,205	57,600	440	580	
Fishpot (SU-9)	1959	660	1,205	1,205	58,000 ^{2/}	460	. 50	
Fishbed C/E (MG-21)	1960-1961	595	1,050	1,150	59,500 ^{9/}	360	1450	
Fishbed D (KIG-21)	1962	595	1,050	1,150	61,500 ^{2/}		1470	
Fishbed F (MIG-21) $^{7/}$	1965	595	1,050	1,260	62,600 ^{2/}	400 .		
Firebar (Yak-28)	1964	515	1,100	1,050	54,600	550		
Patore Metels	,		!				. '	
Piddler	1966-1967	7 5h0	1,100	1,030	52,700	760	a,c60	
Improved All-Weather Interceptor A.	1968	660	690	About 1,600	70,000	51.0		
Improved All-Meather	1969-197	0 500	915	About 1,700	70-75,000	Un to 500		
Advanced All-Venther Interceptor	1972-197	4 500	Mach	3 Cruise	75-80,000	700	7	
Advanced Long-Rongs All-Wenther Interec	1974-197 stor	6 500	Mach	3 Cruise	75-80,000	2,000		

* See footnotes on following page.

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All Weather						Maximum Effective Attack Range			
Capa-	Track	Main Armament			(n	Attack			
bility	(n.m.)	Guns	FFAF	4/	Air-to-Air Missiles	Guns Rockets	AAM'sa/	Capa- bility	
No; day		2x23 n 1x37 n	m 32x5 m	7 mm		0.5		Tail	
No; day	15/	2x23 m 1x37 m		7 mm		0.5		Tail	
Yes	6/2 <mark>5</mark> /	3x23 m		7 mm	<u>6</u> /	0.5	<u>6</u> /	Tail	
Yes	6/2 <u>6</u> /	3x23 m	m 48x5	7 mm	<u>6</u> /	0.5	<u>-</u> <u>6</u> /	Tail	
Yes	12/8	2x37 m	m			0.5		Tail	
No; Day	-/1 <u>5</u> /	2x23 m 1x37 m	m 32x5 m 64x5	7 mm. 7 mm	or,	0.5		Tail	
Yes	6/2	2x30 m	m			0.5		Tail	
No; Clear Air Mass	1 ⁵ /	2x30 m	m 16x5 64x5	7 mm 7	or	0.5		Tail	
No; Clear Air Mass	1 <u>5</u> /	3x30 m	m 16x5 64x5	7 mm .	or	0.5		Tail	
Yes	6/3				4xAA-1b		2-3	Tail	
No; Clear Air Mass	-/4 ⁵ /	2x30 m	m 32x5	7 mm	2xAA-2b	0.5	5-6 <u>8</u> /	Tail	
Yes	11/5	 :			4xAA-1c		3-4	Tail	
No; Clear Air Mass	4 <u>5</u> /	1x30 m	m		2xAA-2b		5-6-8/	Tail	
Yes	11/8				2xAA-2b or 2xAA-1b		5-6 3-4	Tail	
Yes	11/8				2xAA-2b or 2xAA-1b		5-6 3-4	Tail	
Yes	22/16				2xAA-3a/3b		10-12	Tail	
Yes	32/24				4xAA-5a/5b		10-16	360 ⁰	
Yes	22/16				2xAA-2-1 <u>d</u> /		10-12	Tail-Nose	
Yes	40/30				2 or 4 AA-Z-1(?)		10-12	360°	
Yes	About	 d For Rele	ase 200	2/01/03	4xAA-Z-1(?) 3 : CIA-RDP79R	00978A0008	At Least 00032004-8	360 ⁰	
Yes	About 60-45				4xAA-Z-1		At Least	360 ⁰	

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TABLE IIB 4

SOVIET INTERCEPTOR AND FIGHTER AIRCRAFT ESTIMATED CHARACTERISTICS AND PERFORMANCE

FOOTNOTES

- Maximum speeds, combat ceilings and combat radii have been calculated independently and cannot all be achieved on the same flight profile.
- 2/ Without external fuel tanks.
- 3/ These combat radii are calculated on the basis of subsonic cruise to and from the combat area and five minutes maximum speed in the combat area, except for the Advanced All-Weather Interceptor and the Advanced Long-Range All-Weather Interceptor.
- 4/ Folding Fin Air Rockets.
- 5/ These figures are for radars that give target ranges only.
 The pilot must acquire the target visually and aim by optical gun sight. The range-only radar tells the pilot when he can fire.
- 6/ Some of these aircraft assigned to Tactical Aviation and a few in PVO Strany are equipped to carry four AA-l air-to-air missiles; in these cases the search/track range is 6/3 nm and the maximum effective attack range is 3nm.
- 7/ There are a few Fitters and no Fishbeds in PVO Strany; both aircraft, however, are deployed in large numbers in Tactical Aviation units. These models are included in the table because of their capabilities as interceptors.
- 8/ These aircraft have infrared missiles which do not require radar quidance; therefore visual attack can be made at the effective range of the missile.
- 9/ These aircraft have the capability to make intercepts, with limited effectiveness, in dynamic climb against subsonic targets at altitudes on the order of 70,000 feet when under close GCI direction.
- Assumes an optimum operational attack situation for each weapons system involved. These are not necessarily the same assumptions as given in Footnote 5 of Table II-B'-6 for the missile. The ranges consequently are often different.
- b/ There is evidence that some Firebar aircraft may carry external fuel.
- c/ This aircraft may also exist in a tactical fighter version, the TF=68 shown in Section III. In Table II=B 4, it is considered in the interceptor role.

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TABLE IIB 4 (cont'd.)

- d/ There is no evidence indication this missile carried. It may be a new missile or it could be the AA-3A/B or the AA-4.
- $\underline{e}/$ Designed for cruise at Mach 2.3 to 2.5.